	Application No.	Applicant(s)
Notice of Allowability	10/065,934	SUGAR ET AL.
	Examiner	Art Unit
	Sam Bhattacharya	2687
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	ears on the cover sheet with a (OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is substand MPEP 1308.	is application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to the Amendment filed	on April 4, 2005.	
2. The allowed claim(s) is/are 16,18,20 and 21.		
3. $\boxtimes$ The drawings filed on <u>02 December 2002</u> are accepted by	the Examiner.	•
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application N	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS ( as "replacement sheets") mus  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same contents.	son's Patent Drawing Review ( . s Amendment / Comment or in .84(c)) should be written on the che header according to 37 CFR 1	the Office action of drawings in the front (not the back) of 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 20050105</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ⊠ Interview Sum Paper No./Ma 98), 7. ⊠ Examiner's An	il Date <u>20050616</u> .
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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Andrew Floam on June 16, 2005.

The application has been amended as follows:

Claim 20 is amended to read as follows:

20. (amended) A method for communication of signals occurring in multiple channels in a frequency band, comprising:

downconverting energy in the frequency band including energy in multiple channels in which multiple signals are transmitted in accordance with the same communication protocol and producing a baseband receive signal representative thereof;

converting the baseband receive signal to a digital receive signal;

demodulating the digital receive signal to recover multiple receive data baseband demodulating the digital receive signal that represents receive signals for corresponding channels in the frequency band according to the communication protocol to recover multiple receive data, each receive data associated with a corresponding channel in the frequency band;

<u>baseband</u> modulating <u>each of</u> multiple transmit data <u>according to the communication</u>

<u>protocol</u> to produce a plurality of digital transmit signals to be simultaneously transmitted in corresponding channels in the frequency band according to the same communication protocol, to

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thereby simultaneously support multiple channels in the frequency band of the same communication protocol;

converting the plurality of digital transmit signals to analog transmit signals for upconversion by the radio transceiver; and

upconverting the plurality of analog transmit signals each to be transmitted in a corresponding one of the multiple channels in the frequency band.

## Allowable Subject Matter

- 2. Claims 16, 18, 20 and 21 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the prior art of record fails to disclose a combination of elements in a radio transceiver system, including a baseband signal processing section coupled to the ADC and to the DAC that baseband demodulates the digital receive signal to recover multiple receive data associated with corresponding channels in the frequency band and that modulates multiple transmit data to produce digital transmit signals for processing by the DAC and transmission by the radio transceiver in corresponding channels in the frequency band, wherein the baseband signal processing section performs baseband modulation according to a communication protocol for each of multiple transmit data for transmission by the radio transceiver in corresponding channels in the frequency band, and performs baseband demodulation according to the communication protocol of the digital receive signal representing receive signals for corresponding channels in the frequency band, to thereby simultaneously support multiple channels in the frequency band of the same communication protocol, as in claim 16; and a combination of steps in a method for communication of signals

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occurring in multiple channels in a frequency band, including baseband demodulating the digital receive signal that represents receive signals for corresponding channels in the frequency band according to the communication protocol to recover multiple receive data, each receive data associated with a corresponding channel in the frequency band, and baseband modulating each of multiple transmit data according to the communication protocol to produce a plurality of digital transmit signals to be simultaneously transmitted in corresponding channels in the frequency band according to the same communication protocol, to thereby simultaneously support multiple channels in the frequency band of the same communication protocol, as in claim 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Bhattacharya whose telephone number is (571) 272-7917. The examiner can normally be reached on Weekdays, 9-6, with first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G. Kincaid can be reached on (571) 272-7922.

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sb

SONNYTRINH
PRIMARY EXAMINER